

Blu-ray Disc™ / DVD Player

Operating Instructions

Thank you for your purchase. Before using this player, please read these instruction carefully.

Getting Started

Playback

Internet

Settings and Adjustments

Additional Information



WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

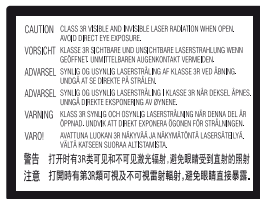
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

The AC power cord must be changed only at a qualified service shop.

Batteries or batteries installed apparatus shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this Blu-ray Disc/DVD player is harmful to eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.



This label is located on the laser protective housing inside the enclosure.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Precautions

- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.
- Install this unit so that the AC power cord can be unplugged from the wall socket immediately in the event of trouble.

Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference received,
including interference that may cause undesired operation of the device.

FCC WARNING

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

Contains FCC ID : EW4DWMW069

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Owner's Record

The model and serial numbers are located at the rear of the unit. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. _____

Serial No. _____

If this product is not working properly, please call 1-866-909-7669.

Precautions

This equipment has been tested and found to comply with the limits set out in the EMC Directive using a connection cable shorter than 3 metres.

On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Do not place the player on a soft surface such as a rug that might block the ventilation holes.
- Do not install this player in a confined space, such as a bookshelf or similar unit.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- Do not place the player outdoors, in vehicles, on ships, or on other vessels.
- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the player. Should this occur, the player may not operate properly. In this case, remove the disc and leave the player turned on for about half an hour until the moisture evaporates.
- Do not install the player in an inclined position. It is designed to be operated in a horizontal position only.

- Do not place metal objects in front of the front panel. It may limit reception of radio waves.
- Do not place the player in a place where medical equipment is in use. It may cause a malfunction of medical instruments.
- If you use a pacemaker or other medical device, consult your physician or the manufacturer of your medical device before using the wireless LAN function.
- Do not place heavy or unstable objects on the player.
- Do not place any objects other than discs on the disc tray. Doing so may cause damage to the player or the object.
- Take out any discs from the tray when you move the player. If you don't, the disc may be damaged.
- Disconnect the AC power cord and all other cables from the player when you move the player.

On power sources

- The player is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the player itself has been turned off.
- Disconnect the player from the wall outlet if you are not going to use the player for a long time. To disconnect the AC power cord, grasp the plug itself; never pull the cord.
- Observe following points to prevent the AC power cord being damaged. Do not use the AC power cord if it is damaged, as doing so may result in an electric shock or fire.
 - Do not pinch the AC power cord between the player and wall, shelf, etc.
 - Do not put anything heavy on the AC power cord or pull on the AC power cord itself.

On adjusting volume

Do not turn up the volume while listening to a section with very low level inputs or no audio signals. Your ears and the speakers may be damaged when the sound level reaches the peak.

On cleaning

Clean the cabinet, panel, and controls with a soft cloth. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene.

On cleaning discs, disc/lens cleaners

Do not use cleaning discs or disc/lens cleaners (including wet or spray types). These may cause the apparatus to malfunction.

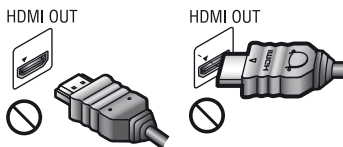
On replacement of parts

In the events that this player is repaired, repaired parts may be collected for reuse or recycling purposes.

On connecting to the HDMI OUT jack

Observe the following as improper handling may damage the HDMI OUT jack and the connector.

- Carefully align the HDMI OUT jack on the rear of the player and the HDMI connector by checking their shapes. Make sure the connector is not upside down or tilted.



- Be sure to disconnect the HDMI cable when moving the player.



- Hold the HDMI connector straight when connecting or disconnecting the HDMI cable. Do not twist or force the HDMI connector into the HDMI OUT jack.

IMPORTANT NOTICE

Caution: This player is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen. Plasma display panel televisions and projection televisions are susceptible to this.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

Copy Protection

Please be advised of the advanced content protection systems used in both Blu-ray Disc™ and DVD media. These systems, called AAC (Advanced Access Content System) and CSS (Content Scramble System), may contain some restrictions on playback, analog output, and other similar features. The operation of this product and the restrictions placed may vary depending on the date of purchase, as the governing board of the AAC may adopt or change its restriction rules after the time of purchase.

Cinavia Notice

This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be interrupted.

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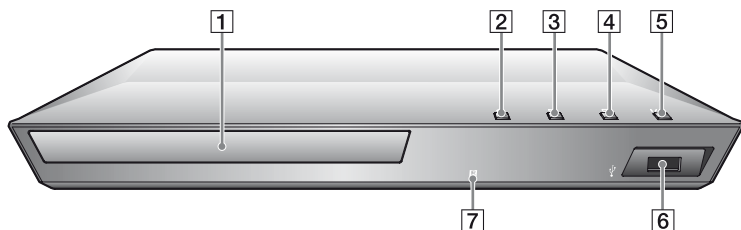
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Guide to Parts and Controls

Front panel



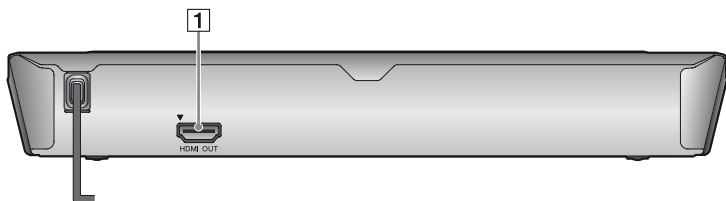
The ► button has a tactile dot. Use the tactile dot as a reference when operating the player.

- 1** Disc tray
- 2** ▲ (open/close)
- 3** ► (play)
- 4** ■ (stop)
- 5** I/⏻ (on/standby) / Power indicator
Turns on the player, or sets to standby mode.
- 6** USB (USB) jack
Connect a USB device to this jack.
- 7** Remote sensor

To lock the disc tray (Child Lock)

You can lock the disc tray to avoid accidental opening of the tray. While the player is turned on, hold down the ► button on the player for more than 10 seconds to lock or unlock the tray.

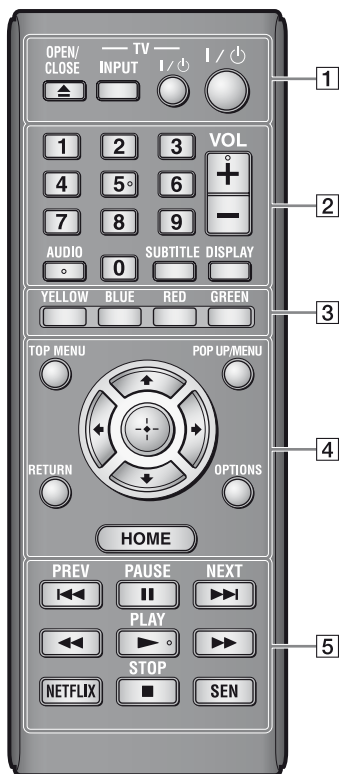
Rear panel



- 1** HDMI OUT jack

Remote

The available functions of the remote are different depending on the disc or the situation.



Number 5, AUDIO, VOL +, and ► PLAY buttons have a tactile dot. Use the tactile dot as a reference when operating the player.

The player automatically returns to standby mode

If any button on the player or remote is not pressed for more than 30 minutes, the player automatically returns to standby mode.

1 ▲ OPEN/CLOSE

Opens or closes the disc tray.

-TV- INPUT

Switches between TV and other input sources.

-TV- I/⏻ (on/standby)

Turns on the TV, or sets to standby mode.

I/⏻ (on/standby)

Turns on the player, or sets to standby mode.

2 Number buttons (0 - 9)

Enters the title/chapter/track numbers, etc.



Track numbers are applicable to CD-DA (Music CD) only.

VOL +/-

Adjusts the TV volume.

AUDIO (page 28)

Selects the language track when multi-lingual tracks are recorded on BD-ROMs/DVD VIDEOS.

Selects the sound track on CDs.

SUBTITLE (page 28)

Selects the subtitle language when multi-lingual subtitles are recorded on BD-ROMs/DVD VIDEOS.

DISPLAY (page 19)

Displays the playback and browsing information on the screen.

3 Color buttons (YELLOW/BLUE/RED/GREEN)

Shortcut keys for interactive functions.

4 TOP MENU

Opens or closes the BD's or DVD's Top Menu.

POP UP/MENU

Opens or closes the BD-ROM's Pop-up Menu, or the DVD's menu.

OPTIONS (page 22)

Displays the available options on the screen.

HOME

Enters the player's home menu. Displays the wall paper when pressed on the category icon of the home menu.

RETURN

Returns to the previous display.



Moves the highlight to select a displayed item.

Center button (ENTER)

Enters the selected item.

5 ◀◀ PREV/NEXT ▶▶

Skips to the previous/next chapter, track, or file.

|| PAUSE

Pauses or re-starts playback.

◀◀/▶▶ (fast reverse/fast forward)

- Fast reverse/fast forward the disc when you press the button during playback. The search speed changes each time you press the button during video playback.
- Plays in slow motion, when pressed for more than one second in pause mode.
- Plays one frame at a time, when you press for a short time in pause mode.

▶ PLAY

Starts or re-starts playback.

NETFLIX

Enables access to the "NETFLIX" online service.

■ STOP

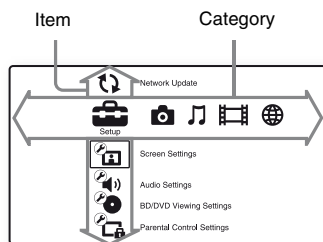
Stops playback and remembers the stop point (resume point). The resume point for a title/track is the last point you played or the last photo for a photo folder.

SEN (page 19)

Accesses the "Sony Entertainment Network™" online service.

Home menu display

The home menu appears when you press HOME. Select a category using ◀/▶. Select an item using ↑/↓, and press ENTER.



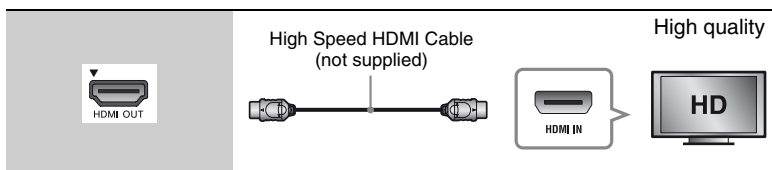
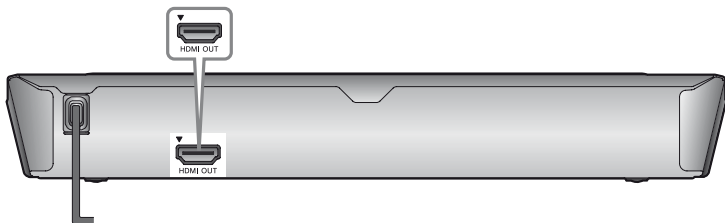
- [Setup]: Adjusts the player settings.
- [Photo]: Displays photos.
- [Music]: Plays music.
- [Video]: Plays videos.
- [Network]: Displays network items.

Step 1: Connecting the Player

Do not connect the AC power cord until you have made all the connections.

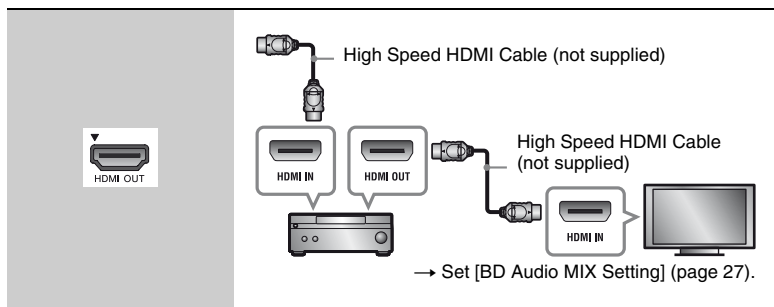
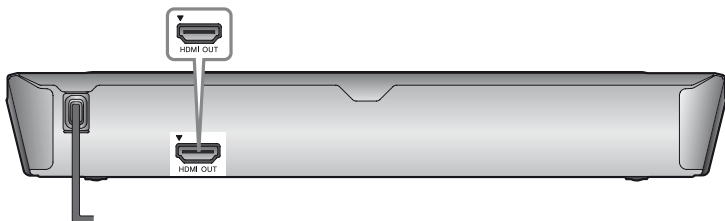
Connecting to your TV

Connect the player to your TV with a High Speed HDMI Cable.



Connecting to your AV amplifier (receiver)

Make the appropriate settings in the [Audio Settings] setup (page 27).

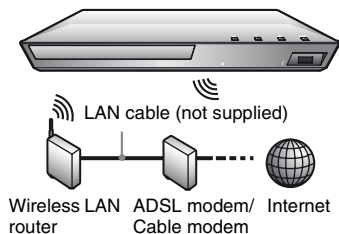


Step 2: Preparing for Network Connection

If you are not going to connect the player to a network, proceed to “Step 3: Easy Setup” (page 16).

Wireless Setup

Use the wireless LAN that is built into the player.

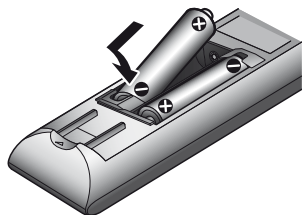


Step 3: Easy Setup

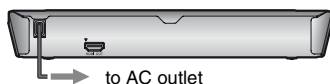
When turned on for the first time

Wait for a short while before the player turns on and starts [Easy Initial Settings].

- 1 Insert two Size AA (R6) batteries (not supplied) by matching the \oplus and \ominus ends on the batteries to the markings inside the battery compartment.



- 2 Plug the player into the AC outlet.



- 3 Press I/⏻ to turn on the player.

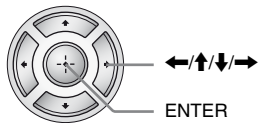


- 4 Turn on the TV and set the input selector on your TV. This will show the signal from the player on your TV screen.

5 Perform [Easy Initial Settings].

Follow the on-screen instructions to make the basic settings using

←/↑/↓/→ and ENTER on the remote.

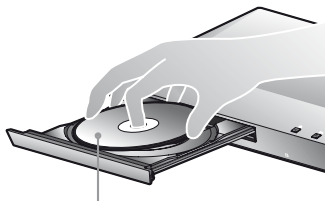


When [Easy Initial Settings] is complete, select [Easy Network Settings] to use the network functions of the player.

Playing a Disc

For playable discs, see page 37.




- 1 Switch the input selector on your TV so that the signal from the player appears on your TV screen.
- 2 Press Δ OPEN/CLOSE, and place a disc on the disc tray.



Playing side facing down

- 3 Press Δ OPEN/CLOSE to close the disc tray.

Playback starts.

If playback does not start automatically, select \bullet in the  [Video],  [Music], or  [Photo] category, and press ENTER.

Enjoying BONUSVIEW/ BD-LIVE

Some BD-ROMs with the “BD-LIVE” logo* have bonus contents and other data that can be downloaded for your enjoyment.

*  BD-LIVE™

- 1 Connect a USB memory to the USB jack on the player (page 10).

Use a 1 GB or larger USB memory as your local storage.


- 2 Prepare for BD-LIVE (BD-LIVE only).

- Connect the player to a network (page 16).
- Set [BD Internet Connection] in [BD/DVD Viewing Settings] setup to [Allow] (page 28).

- 3 Insert a BD-ROM with BONUSVIEW/BD-LIVE.

The operation method differs depending on the disc. Refer to the instruction manual supplied with the disc.

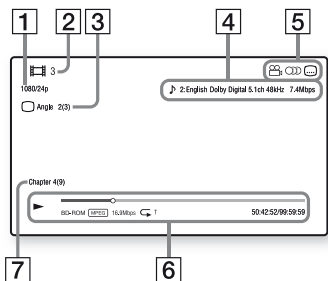


To delete data in the USB memory, select [Delete BD Data] in the  [Video] category, and press ENTER. All data stored in the buda folder will be erased.

Displaying the play information

You can view the playback information, etc., by pressing DISPLAY. The displayed information differs depending on the disc type and player status.

Example: when playing a BD-ROM



- 1 Output resolution/Video frequency
- 2 Title number or name
- 3 The currently selected angle
- 4 The currently selected audio setting
- 5 Available functions (angle, audio, subtitle)
- 6 Playback information
Displays the Play mode, Playing status bar, Disc type, Video codec, Bitrate, Repeat type, Elapsed time, and Total playing time.
- 7 Chapter number

Playing from a USB Device

For “Playable types of files”, see page 38.

- 1 **Connect the USB device to the USB jack on the player (page 10).**
Refer to the instruction manual supplied with the USB device before connecting.
- 2 **Select [Video], [Music], or [Photo] category on the home menu using ←/→.**
- 3 **Select [USB device] using ↑/↓, and press ENTER.**

Playing via a Network

Enjoying Sony Entertainment Network

Sony Entertainment Network serves as a gateway, delivering the selected Internet content and a variety of on-demand entertainment straight to your player.



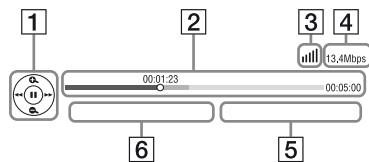
- Some Internet content requires registration via a PC before it can be played. For further details, visit the following website:
<http://www.sony.com/bluraysupport/>
- Some Internet content may not be available in some regions/countries.

- 1 Connect the player to a network (page 16).
- 2 Press **SEN** button on the remote.
- 3 Select an Internet content and a variety of on-demand entertainment using **←/↑/↓/→**, and press **ENTER**.

Video streaming control panel

The control panel appears when the video file starts playing. The displayed items may differ depending on Internet content providers.

To display again, press **DISPLAY**.



- 1 Control display
Press **←/↑/↓/→** or **ENTER** for playback operations.
- 2 Playing status bar
Status bar, Cursor indicating the current position, Playing time, Duration of the video file
- 3 Network condition
■■■■ indicates the signal strength for wireless connection.
- 4 Network transmission speed
- 5 The file name of the next video
- 6 The file name of the current video selection

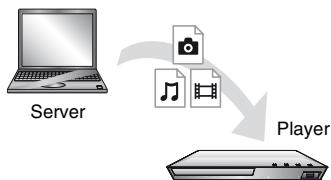
Playing files on a Home Network

The player (Home Network Player) can play video/music/photo files stored on another Home Network-compatible product via a network.

1 Prepare for using Home Network.

- Connect the player to a network (page 16).
- Prepare the other necessary Home Network-compatible products. Refer to the instruction manual supplied with the product.

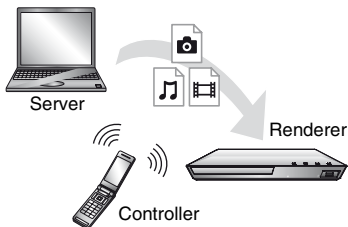
To play a file from a Home Network server via this unit (Home Network player)



Select the Home Network server icon from [Video], [Music], or [Photo] category, then choose the file you want to play.

To play a file from a Home Network server via another product (Renderer)

When you play files from a Home Network Server on this unit, you can use a Home Network Controller-compatible product (a phone, etc.), to control playback.



Control this unit using a Home Network controller. Refer to the instruction manual supplied with the Home Network controller.

Playing the same music in different rooms (PARTY STREAMING)

You can play music files on the player (PARTY host) in other rooms simultaneously through Sony products (PARTY guest) which are compatible with Home Network and the PARTY STREAMING function, or vice versa.

1 Prepare for PARTY STREAMING.

- Connect the player to a network (page 16).
- Connect the products which are compatible with the PARTY STREAMING function to a network.

To use the player as PARTY host

Select a track in [Music] category, then select [Start PARTY] from the options menu to start a PARTY.

To use the player as PARTY guest

Select [PARTY] in [Music] category, then select the PARTY host product icon.



The sale and product lineup of products that are compatible with the PARTY STREAMING function differ depending on the area.

Using “TV SideView”

“TV SideView” is a free mobile application for remote devices (such as smartphone, etc.). By using “TV SideView” with this player, you can easily enjoy the player by using the operation on your remote device. You can launch a service or application directly from the remote device and view the disc information during disc playback. “TV SideView” also can be used as a remote control and software keyboard.

Before you use the “TV SideView” device with this player for the first time, be sure to register the “TV SideView” device. Follow the on-screen instructions on the “TV SideView” device for registration.






The registration can only be performed on the Home Menu.

Available Options

Various settings and playback operations are available by pressing OPTIONS. The available items differ depending on the situation.

Common options

- **[Repeat Setting]:** Sets the repeat mode.
- **[Play]/[Stop]:** Starts or stops the playback.
- **[Play from beginning]:** Plays the item from the beginning.
- **[Change Category]:** Switches category between  [Video],  [Music] and  [Photo] category.

[Video] only

- **[A/V SYNC]:** Adjusts the gap between picture and sound, by delaying the sound output in relation to the picture output (0 to 120 milliseconds).
- **[Video Settings]:**
 - [Picture Quality Mode]: Selects the picture settings for different lighting environments.
 - [BNR]: Reduces the mosaic-like block noise in the picture.
 - [MNR]: Reduces minor noise around the picture outlines (mosquito noise).
- **[Pause]:** Pauses the playback.
- **[Top Menu]:** Displays the BD's or DVD's Top Menu.
- **[Menu]/[Popup Menu]:** Displays the BD-ROM's Pop-up Menu or DVD's menu.
- **[Title Search]:** Searches for a title on BD-ROMs/DVD VIDEOS and starts playback from the beginning.
- **[Chapter Search]:** Searches for a chapter and starts playback from the beginning.

- **[Audio]:** Switches the language track when multilingual tracks are recorded on BD-ROMs/DVD VIDEOS. Selects the sound track on CDs.
- **[Subtitle]:** Switches the subtitle language when multilingual subtitles are recorded on BD-ROMs/DVD VIDEOS.
- **[Angle]:** Switches to other viewing angles when multi-angles are recorded on BD-ROMs/DVD VIDEOS.
- **[IP Content Noise Reduction]:** Adjusts the picture quality of Internet contents.
- **[Video Search]:** Displays information on the BD-ROM/DVD-ROM based on Gracenote technology. Searches for related information using keywords from Gracenote when selecting [Cast] or [Related]. Displays a list of titles when selecting [Playback History] or [Search History].

[Music] only

- **[Add Slideshow BGM]:** Registers music files in the USB memory as slideshow background music (BGM).
- **[Start PARTY]:** Starts a PARTY with the selected source. This item may not appear depending on the source.
- **[Leave PARTY]:** Leaves a PARTY which the player is participating in. The PARTY STREAMING function continues among other participating products.
- **[Close PARTY]:** Closes a PARTY which the player is participating in. The PARTY STREAMING function ends for all other participating products.

- **[Music Search]:** Displays information on the audio CD (CD-DA) based on Gracenote technology. Searches for related information using keywords from Gracenote when selecting [Track], [Artist] or [Related]. Displays a list of titles when selecting [Playback History] or [Search History].

[Photo] only

- **[Slideshow Speed]:** Changes the slideshow speed.
- **[Slideshow Effect]:** Sets the effect for slideshows.
- **[Slideshow BGM]:**
 - [Off]: Turns off the function.
 - [My Music from USB]: Sets the music files registered in [Add Slideshow BGM].
 - [Play from Music CD]: Sets the tracks in CD-DAs.
- **[Change Display]:** Switches between [Grid View] and [List View].
- **[View Image]:** Displays the selected photo.
- **[Slideshow]:** Plays a slideshow.
- **[Rotate Left]:** Rotates the photo counterclockwise by 90 degrees.
- **[Rotate Right]:** Rotates the photo clockwise by 90 degrees.

Browsing Websites

You can connect to the Internet and enjoy websites.

1 Prepare the Internet Browser.

Connect the player to a network (page 16).

2 Select [Network] on the home menu using \leftarrow/\rightarrow .

3 Select [Internet Browser] using \uparrow/\downarrow , and press ENTER.



This browser does not support some websites functions, and some websites may not be shown correctly.

To enter a URL

Select [URL entry] from the options menu. Enter the URL using the software keyboard, then select [Enter].

To set the default start page

While displaying the page you want to set, select [Set as start page] from the options menu.

To return to the previous page

Select [Previous page] from the options menu.

When the previous page does not appear even if you select [Previous page], select [Window List] from the options menu and select the page you want to return to from the list.

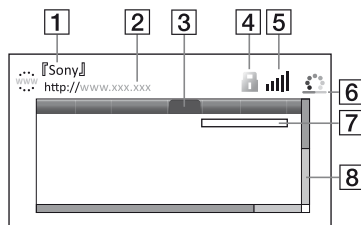
To quit the Internet browser

Press HOME.

Internet browser display

You can check the website information by pressing DISPLAY.

The display information differs depending on the website and page status.




- 1 Page title
- 2 Page address
- 3 Cursor
Move by pressing $\leftarrow/\uparrow/\downarrow/\rightarrow$.
Place the cursor on the link you want to view, then press ENTER. The linked website is displayed.
- 4 SSL icon
Displays when the website is protected and connected safely.
- 5 Signal strength indicator
- 6 Progress bar/Loading icon
Appears when the page is being read, or during file download/transfer.
- 7 Text input field
Press ENTER and select [Input] from the options menu to display the software keyboard.
- 8 Scroll bar
Press $\leftarrow/\uparrow/\downarrow/\rightarrow$ to move the page display left, up, down or right.

Available options






Various settings and operations are available by pressing **OPTIONS**. The available items differ depending on the situation.

- **[Browser Setup]:** Displays the Internet Browser settings.
 - [Zoom]: Increases or decreases the size of the displayed contents.
 - [JavaScript Setup]: Enables or disables JavaScript.
 - [Cookie Setup]: Sets whether or not to accept cookies.
 - [SSL Alarm Display]: Enables or disables SSL.
- **[Input]:** Displays the software keyboard to enter characters while browsing a website.
- **[Break]:** Moves the cursor to the next line in the text input field.
- **[Delete]:** Erases one character on the left side of the cursor during text input.
- **[Window List]:** Displays a list of currently opened website windows. Allows you to return to a previously displayed website by selecting the window.
- **[Bookmark List]:** Displays the bookmark list.
- **[URL entry]:** Allows you to enter a URL when the software keyboard is displayed.
- **[Previous page]/[Next page]:** Moves to the previous/next page.
- **[Cancel loading]:** Stops loading a page.
- **[Reload]:** Reloads the same page.
- **[Add to Bookmark]:** Adds the currently displayed website to the bookmark list.
- **[Set as start page]:** Sets the currently displayed website as the default start page.
- **[Open in new window]:** Opens a link in a new window.
- **[Character encoding]:** Sets the character code.
- **[Display certificate]:** View server certificates sent from pages that support SSL.

Using the Settings Displays

Select  [Setup] on the home menu when you need to change the settings of the player.

The default settings are underlined.

- 1** Select  [Setup] on the home menu using /.
- 2** Select the setup category icon using /, and press ENTER.

[Network Update]

Select [OK] to update the player's software via the network.



- We recommend performing the network update every 2 months or so.
- For information about update functions, visit the following website:
<http://www.sony.com/bluraysupport/>

[Screen Settings]

■ [TV Type]

[16:9]: Select this when connecting to a wide-screen TV or a TV with a wide mode function.

[4:3]: Select this when connecting to a 4:3 screen TV without a wide mode function.

■ [Screen Format]

[Full]: Select this when connecting to a TV with a wide mode function. Displays a 4:3 screen picture in 16:9 aspect ratio even on a wide-screen TV.

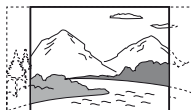
[Normal]: Changes the picture size to fit the screen size with the original picture aspect ratio.

■ [DVD Aspect Ratio]

[Letter Box]: Displays a wide picture with black bands on the top and bottom.



[Pan & Scan]: Displays a full-height picture on the entire screen, with trimmed sides.



■ [Cinema Conversion Mode]

[Auto]: Normally select this. The player automatically detects whether the material is video-based or film-based, and switches to the appropriate conversion method.

[Video]: The conversion method suited for video-based material will always be selected regardless of the material.

■ [Output Video Resolution]

Normally select [Auto]. Select [Original Resolution] to output the resolution recorded on the disc. When the resolution is lower than the SD resolution, it is scaled up to the SD resolution.

■ [BD-ROM 24p Output]

[Auto]: Outputs 1920 × 1080p/24 Hz video signals only when connecting a 1080/24p-compatible TV using the HDMI OUT jack.

[On]: Turns on the function.

[Off]: Select this when your TV is not compatible with 1080/24p video signals.

■ [DVD-ROM 24p Output]

[Auto]: Outputs 1920 × 1080p/24 Hz video signals only when connecting a 1080/24p-compatible TV using the HDMI OUT jack.

[Off]: Select this when your TV is not compatible with 1080/24p video signals.

■ [YCbCr/RGB (HDMI)]

[Auto]: Automatically detects the connected TV type, and switches to the matching color setting.

[YCbCr (4:2:2)]: Outputs YCbCr 4:2:2 video signals.

[YCbCr (4:4:4)]: Outputs YCbCr 4:4:4 video signals.

[RGB]: Outputs RGB video signals.

■ [HDMI Deep Color Output]

[Auto]: Normally select this.

[16bit]/[12bit]/[10bit]: Outputs 16bit/12bit/10bit video signals when the connected TV is compatible with Deep Color.

[Off]: Select this when the picture is unstable or colors appear unnatural.

■ [Pause Mode]

[Auto]: Normally select this. Dynamic moving pictures appear without blurring.

[Frame]: Displays static pictures at high resolution.

**[Audio Settings]**

■ [Digital Audio Output]

[Auto]: Normally select this. Outputs audio signals according to the status of the connected devices.

[PCM]: Outputs PCM signals from the HDMI OUT jack.

■ [BD Audio MIX Setting]

[On]: Outputs the audio obtained by mixing the interactive and secondary audio to the primary audio.

[Off]: Outputs the primary audio only. Select this to output HD audio signals to an AV amplifier (receiver).

■ [DTS Neo:6]

[Cinema]/[Music]: Outputs the simulated multi-channel sound from 2 channel sources via the HDMI OUT jack according to the capability of the connected device using DTS Neo:6 Cinema or DTS Neo:6 Music mode.
[Off]: Outputs the sound with its original number of channels via the HDMI OUT jack.

■ [Audio DRC]

[Auto]: Performs playback at the dynamic range specified by the disc (BD-ROM only). Other discs are played back at the [On] level.
[On]: Performs playback at a standard compression level.
[Off]: No compression works. A more dynamic sound is produced.

■ [Downmix]

[Surround]: Outputs audio signals with surround effects. Select this when connecting an audio device that supports Dolby Surround (Pro Logic) or DTS Neo:6.
[Stereo]: Outputs audio signals without surround effects. Select this when connecting an audio device that does not support Dolby Surround (Pro Logic) or DTS Neo:6.

[BD/DVD Viewing Settings]

■ [BD/DVD Menu Language]

Selects the default menu language for BD-ROMs or DVD VIDEOS. Select [Select Language Code], and enter the code for your language, referring to “Language code list” (page 41).

■ [Audio Language]

Selects the default track language for BD-ROMs or DVD VIDEOS. When you select [Original], the language given priority in the disc is selected. Select [Select Language Code], and enter the code for your language, referring to “Language code list” (page 41).

■ [Subtitle Language]

Selects the default subtitle language for BD-ROMs or DVD VIDEOS. Select [Select Language Code], and enter the code for your language, referring to “Language code list” (page 41).

■ [BD Hybrid Disc Playback Layer]

[BD]: Plays BD layer.
[DVD/CD]: Plays DVD or CD layer.

■ [BD Internet Connection]

[Allow]: Normally select this.
[Do not allow]: Prohibits Internet connection.



[Parental Control Settings]

■ [Password]

Sets or changes the password for the Parental Control function. A password allows you to set a restriction on BD-ROM or DVD VIDEO, and Internet video playback. If necessary, you can differentiate the restriction levels for BD-ROMs, DVD VIDEOS, and Internet videos.

■ [Parental Control Area Code]

Playback of some BD-ROMs, DVD VIDEOS, or Internet videos can be limited according to the geographic area. Scenes may be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

■ [BD Parental Control] / [DVD Parental Control] / [Internet Video Parental Control]

By setting Parental Control, scenes can be blocked or replaced with different scenes. Follow the on-screen instructions and enter your four-digit password.

■ [Internet Video Unrated]

[Allow]: Allows the playback of unrated Internet videos.

[Block]: Blocks the playback of unrated Internet videos.



[System Settings]

■ [OSD Language]

Selects on-screen display language for your player.

■ [HDMI Settings]

By connecting Sony components that are compatible with HDMI functions with a High Speed HDMI Cable, operation is simplified.

[Control for HDMI]

[On]: The following BRAVIA Sync features are available:

- One-Touch Play
- System Power-Off
- Language Follow

[Off]: Turns off the function.



For details, refer to the instruction manual supplied with the TV or components.

[Linked to TV-off]

[On]: Automatically turns off the player and HDMI-compatible components when the connected TV enters standby mode (BRAVIA Sync).

[Off]: Turns off the function.

■ [Startup Screen]

Set the startup screen when turning on the player.

[Network Service Screen]: Starts on Sony Entertainment Network portal screen.

[Home Menu Screen]: Starts on home menu.

■ [Quick Start Mode]

[On]: Shortens the startup time when turning on the player.

[Off]: Reduces standby power consumption.

■ [Auto Display]

[On]: Automatically displays information on the screen when changing the viewing titles, picture modes, audio signals, etc.

[Off]: Displays information only when you press DISPLAY.

■ [Screen Saver]

[On]: Turns on the screen saver function. The screen saver image appears when you do not use the player for more than 10 minutes while an on-screen display is displayed.

[Off]: Turns off the function.

■ [Software Update Notification]

[On]: Sets the player to inform you of newer software version information (page 26).

[Off]: Turns off the function.

■ [Gracenote Settings]

[Auto]: Automatically downloads disc information when disc playback stops. Connect to the network for downloading.

[Manual]: Downloads the disc information when [Video Search] or [Music Search] is selected.

■ [System Information]

Displays the player's software version information and the MAC address.

■ [Software License Information]

Displays information about the Software License.

[Network Settings]

■ [Internet Settings]

Connect the player to the network beforehand. For details, see “Step 2: Preparing for Network Connection” (page 16).



For further details, visit the following website and check the FAQ contents:
<http://www.sony.com/bluraysupport/>

■ [Network Connection Status]

Displays the current network status.

■ [Network Connection Diagnostics]

Checks for the proper network connection by running the network diagnostics.

■ [Connection Server Settings]

Sets whether or not to display the connected server.

■ [Renderer Options]

[Auto Access Permission]: Sets whether or not to allow automatic access from newly detected Home Network controller-compatible product.

[Renderer Name]: Displays the player's name as it is listed on other Home Network products on the network.

■ [Renderer Access Control]

Displays a list of Home Network controller-compatible products and sets whether or not each product is accessible via this player.

■ [PARTY Auto Start]

[On]: Starts a PARTY or joins an existing PARTY at the request of a networked product compatible with the PARTY STREAMING function.

[Off]: Turns off the function.

■ [Registered Remote Devices]

Displays a list of your registered remote devices.


1-2-3 **[Easy Network Settings]**

Select [Easy Network Settings] to specify the network settings. Follow the on-screen instructions.

 **[Resetting]**

■ [Reset to Factory Default Settings]

Resets the player settings to the factory default by selecting the group of settings. All the settings within the group will be reset.

■ [Initialize Personal Information]

Erases your personal information stored in the player.

Additional Information

Troubleshooting

If you experience any of the following difficulties while using the player, use this troubleshooting guide to help remedy the problem before requesting repairs. Should any problem persist, consult your nearest Sony dealer.

Picture

There is no picture or the picture is not output correctly.

- ➔ Check that the connecting cable is securely connected (page 14).
- ➔ Switch the input selector on your TV to display the signal from the player.
- ➔ Reset the [Output Video Resolution] to the lowest resolution by pressing ■ on the player for more than 10 seconds.
- ➔ Try the following: ①Turn the player off and on again. ②Turn the connected equipment off and on again. ③Disconnect and then reconnect the HDMI cable.
- ➔ The HDMI OUT jack is connected to a DVI device that does not support copyright protection technology.
- ➔ Check the [Output Video Resolution] settings in the [Screen Settings] setup (page 27).
- ➔ For BD-ROMs, check the [BD-ROM 24p Output] setting in the [Screen Settings] setup (page 27).
- ➔ For DVD-ROMs, check the [DVD-ROM 24p Output] setting in the [Screen Settings] setup (page 27).

The display language on the screen switches automatically when connected to the HDMI OUT jack.

- ➔ When [Control for HDMI] in [HDMI Settings] is set to [On] (page 29), the display language on the screen automatically switches according to the language setting of the connected TV (if you change the setting on your TV, etc.).

Sound

There is no sound or the sound is not output correctly.

- ➔ Check that the connecting cable is securely connected (page 14).
- ➔ Switch the input selector on your AV amplifier (receiver) so that the audio signals of the player are output from your AV amplifier (receiver).
- ➔ If the audio signal does not come through the HDMI OUT jack, check the audio settings (page 27).
- ➔ Try the following: ①Turn the player off and on again. ②Turn the connected equipment off and on again. ③Disconnect and then reconnect the HDMI cable.
- ➔ If the player is connected to a TV through an AV amplifier (receiver), try connecting the HDMI cable directly to the TV. Refer also to the instruction manual supplied with the AV amplifier (receiver).
- ➔ The HDMI OUT jack is connected to a DVI device (DVI jacks do not accept audio signals).

- ➔ The device connected to the HDMI OUT jack does not support the audio format of the player. Check the audio settings (page 27).

The HD Audio (Dolby Digital Plus, Dolby TrueHD, DTS-HD High Resolution Audio, and DTS-HD Master Audio) is not output by bitstream.

- ➔ Set [BD Audio MIX Setting] in [Audio Settings] setup to [Off] (page 27).
- ➔ Check that the connected AV amplifier (receiver) is compatible with each HD Audio format.

The interactive audio is not output.

- ➔ Set [BD Audio MIX Setting] in [Audio Settings] setup to [On] (page 27).

Message Code 3 [Audio outputs temporarily muted. Do not adjust the playback volume. The content being played is protected by Cinavia and is not authorized for playback on this device. For more information, see <http://www.cinavia.com>. Message Code 3] appears on the screen when playing a disc.

- ➔ The audio track of the video that you are playing contains a Cinavia code indicating that it is an unauthorized copy of professionally-produced content (page 5).

Disc

The disc does not play.

- ➔ The disc is dirty or skewed.
- ➔ The disc is upside down. Insert the disc with the playback side facing down.
- ➔ The disc has a format that cannot be played back by this player (page 37).
- ➔ The player cannot play a recorded disc that is not correctly finalized.
- ➔ The region code on the BD or DVD does not match the player.

USB device

The player does not detect a USB device connected to the player.

- ➔ Make sure that the USB device is securely connected to the USB jack.
- ➔ Check if the USB device or a cable is damaged.
- ➔ Check if the USB device is on.
- ➔ If the USB device is connected via a USB hub, connect the USB device directly to the player.

Sony Entertainment Network

The picture/sound is poor/certain programs display a loss of detail, especially during fast-motion or dark scenes.

- ➔ Picture/sound quality may be improved by changing the connection speed. Recommended connection speed is of at least 2.5 Mbps for standard definition video (10 Mbps for high definition video).

The picture is small.

- ➔ Press **↑** to zoom in.

Network connection

The player cannot connect to the network.

- ➔ Check the network connection (page 16) and the network settings (page 30).

The PC cannot connect to the Internet after [Wi-Fi Protected Setup (WPS)] is performed.

- ➔ The wireless settings of the router may change automatically if you use the Wi-Fi Protected Setup function before adjusting the settings of the router. In this case, change the wireless settings of your PC accordingly.

You cannot connect the player to the wireless LAN router.

- ➔ Check if the wireless LAN router is on.
- ➔ Depending on the surrounding environment, such as the wall material, radio wave receiving condition, or obstacles between the player and the wireless LAN router, the communication distance may be shortened. Move the player and the wireless LAN router closer to each other.
- ➔ Devices that use a 2.4 GHz frequency band, such as a microwave, Bluetooth, or digital cordless device, may interrupt the communication. Move the player away from such devices, or turn off such devices.

The desired wireless router do not appear in the wireless network list.

- ➔ Press RETURN to return to the previous screen, and try wireless setup again. If the desired wireless router is still not detected, press RETURN to select [Manual registration].

The message [A new software version is available. Please go to the "Setup" section of the menu and select "Network update" to perform the update.] appears on the screen when turning the player on.

- ➔ See [Network Update] (page 26) to update the player to a newer software version.

The PARTY STREAMING function cannot start.

- ➔ Check that [PARTY Auto Start] in [Network Settings] setup is set to [On] (page 31).

Control for HDMI (BRAVIA Sync)

The [Control for HDMI] function does not work (BRAVIA Sync).

- ➔ Check that [Control for HDMI] in [HDMI Settings] is set to [On] (page 29).
- ➔ If you change the HDMI connection, turn the player off and on again.
- ➔ If power failure occurs, set [Control for HDMI] in [HDMI Settings] to [Off], then set [Control for HDMI] in [HDMI Settings] to [On] (page 29).

- ➔ Check the following and refer to the instruction manual supplied with the component.
 - the connected component is compatible with the [Control for HDMI] function.
 - the connected component's setting for the [Control for HDMI] function is correct.
- ➔ When you connect the player to a TV through an AV amplifier (receiver),
 - if the AV amplifier (receiver) is not compatible with the [Control for HDMI] function, you may be unable to control the TV from the player.
 - if you change the HDMI connection, disconnect and reconnect the AC power cord, or a power failure occurs, try the following:
 - ① Switch the input selector of the AV amplifier (receiver) so that the picture from the player appears on the TV screen.
 - ② Set [Control for HDMI] in [HDMI Settings] to [Off], then set [Control for HDMI] in [HDMI Settings] to [On] (page 29). Refer to the instruction manual supplied with the AV amplifier (receiver).

The System Power-Off function does not work (BRAVIA Sync).

- ➔ Check that [Control for HDMI] and [Linked to TV-off] in [HDMI Settings] are set to [On] (page 29).

Others

Playback does not start from the beginning of content.


- ➔ Press **OPTIONS**, and select [Play from beginning].




Playback does not start from the resume point where you last stopped playing.

- ➔ The resume point may be cleared from memory depending on the disc when
 - you open the disc tray.
 - you disconnect the USB device.
 - you play other content.
 - you turn off the player.


Message Code 1 [Playback stopped]. The content being played is protected by Cinavia and is not authorized for playback on this device. For more information, see <http://www.cinavia.com>. Message Code 1 appears on the screen when playing a disc.

- ➔ The audio track of the video that you are playing contains a Cinavia code indicating it was intended for presentation using professional equipment only and is not authorized for playback by consumers (page 5).

The disc tray does not open and you cannot remove the disc even after you press .

- ➔ Try the following: ①Turn the player off, and disconnect the AC power cord.
- ②Reconnect the AC power cord while pressing down  on the player.
- ③Keep pressing down  on the player until the tray opens.
- ④Remove the disc.
- ⑤Hold down  on the player for more than 10 seconds until the player turns off.

The player does not respond to any button.

- ➔ Moisture has condensed inside the player (page 4).
- ➔ Hold down  on the player for more than 10 seconds until the player turns off.
If the player still does not respond to any button, disconnect then reconnect the AC power cord.

Specifications

System

Laser: Semiconductor laser

Inputs and outputs

(Jack name:

Jack type/Output level/Load impedance)

HDMI OUT:

HDMI 19-pin standard connector

USB:

USB jack Type A (For connecting a USB memory, memory card reader, digital still camera, and digital video camera)

Wireless

Wireless LAN standard:

IEEE 802.11 b/g/n

Frequency range:

2.4 GHz band: Channels 1-11

Modulation:

DSSS and OFDM

General

Power requirements:

120 V AC, 60 Hz

Power consumption: 9.9 W

Dimensions (approx.):

290 mm × 194 mm × 43 mm
(11 1/2 in. × 7 3/4 in. × 1 3/4 in.)
(width/depth/height)
incl. projecting parts

Mass (approx.): 1.1 kg (2 lb 7 oz)

Operating temperature:

5 °C to 35 °C (41 °F to 95 °F)

Operating humidity:

25 % to 80 %

Supplied accessory

Remote commander (remote) (1)
(Batteries not supplied)

Specifications and design are subject to change without notice.

Playable discs

Blu-ray Disc *1	BD-ROM BD-R*2/BD-RE*2
DVD *3	DVD-ROM DVD-R/DVD-RW DVD+R/DVD+RW
CD *3	CD-DA (Music CD) CD-ROM CD-R/CD-RW

*1 Since the Blu-ray Disc specifications are new and evolving, some discs may not be playable depending on the disc type and the version.

The audio output differs depending on the source, connected output jack, and selected audio settings.

*2 BD-RE: Ver.2.1

BD-R: Ver.1.1, 1.2, 1.3 including organic pigment type BD-R (LTH type)
The BD-Rs recorded on a PC cannot be played if postscripts are recordable.

*3 A CD or DVD disc will not play if it has not been correctly finalized. For more information, refer to the instruction manual supplied with the recording device.

Discs that cannot be played

- BDs with cartridge
- BDXLs
- DVD-RAMs
- HD DVDs
- DVD Audio discs
- PHOTO CDs
- Data part of CD-Extras
- Super VCDs
- Audio material side on DualDiscs
- A disc recorded in a color system other than NTSC, such as PAL (this player conforms to the NTSC color system).

Note on Discs

This product is designed to playback discs that conform to the Compact Disc (CD) standard. DualDiscs and some of the music discs encoded with copyright protection technologies do not conform to the Compact Disc (CD) standard, therefore, these discs may not be playable by this product.


Note on playback operations of BDs/DVDs

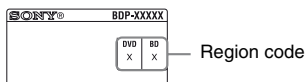
Some playback operations of BDs/DVDs may be intentionally set by software producers. Since this player plays BDs/DVDs according to the disc contents the software producers designed, some playback features may not be available.

Note about double-layer BDs/DVDs

The playback pictures and sound may be momentarily interrupted when the layers switch.

Region code (BD-ROM/DVD VIDEO only)

Your player has a region code printed on the rear of the unit and will only play BD-ROMs/DVD VIDEOS labeled with identical region codes or .



Playable types of files

Video

Codec	Container	Extension	With Audio
MPEG-1 Video ^{*1}	PS	.mpg, .mpeg	Dolby Digital, DTS, LPCM, MPEG
MPEG-2 Video ^{*2}	PS ^{*3}	.mpg, .mpeg	Dolby Digital, DTS, LPCM, MPEG
	TS ^{*4}	.m2ts, .mts	Dolby Digital, DTS, LPCM, MPEG, AAC
Xvid	AVI	.avi	Dolby Digital, LPCM, WMA9, MP3
	MKV	.mkv	Dolby Digital, LPCM, AAC, MP3
MPEG4/AVC ^{*5}	MKV ^{*1}	.mkv	Dolby Digital, LPCM, AAC, MP3
	MP4 ^{*1}	.mp4, .m4v	AAC
	TS ^{*1}	.m2ts, .mts	Dolby Digital, DTS, LPCM, MPEG, AAC
	Quick Time ^{*6}	.mov	Dolby Digital, LPCM, AAC, MP3
	3gpp/ 3gpp2 ^{*6}	.3gp, .3g2, .3gpp, .3gp2	AAC
VC1 ^{*1}	TS	.m2ts, .mts	Dolby Digital, DTS, LPCM, MPEG, AAC
WMV9 ^{*1}	ASF	.wmv, .asf	WMA9
Motion JPEG ^{*6}	Quick Time	.mov	Dolby Digital, LPCM, AAC, MP3
	AVI	.avi	Dolby Digital, LPCM, AAC, MP3

Format

AVCHD (Ver.2.0)^{*1*7*8}

Music

Codec	Extension
MP3 (MPEG-1 Audio Layer III) ^{*9}	.mp3
AAC/HE-AAC ^{*1*9}	.m4a, .aac ^{*6}
WMA9 Standard ^{*1}	.wma
LPCM ^{*9}	.wav
FLAC ^{*6}	.flac, .fla
Dolby Digital ^{*6*9}	.ac3

Photo

Format	Extension
JPEG	.jpeg, .jpg, .jpe
PNG	.png ^{*10}
GIF	.gif ^{*10}

- *1 The player may not play this file format on a Home Network server.
- *2 The player can only play standard definition video on a Home Network server.
- *3 The player does not play DTS format files on a Home Network server.
- *4 The player can only play Dolby Digital format files on a Home Network server.
- *5 The player can support AVC up to Level 4.1.
- *6 The player does not play this file format on a Home Network server.
- *7 The player can support frame rate up to 60 fps.
- *8 The player plays AVCHD format files that are recorded on a digital video camera, etc. The AVCHD format disc will not play if it has not been correctly finalized.
- *9 The player can play “.mka” files. This file cannot be played on a Home Network server.
- *10 The player does not play animated PNG or animated GIF files.



- Some files may not play depending on the file format, file encoding, recording condition, or Home Network server condition.
- Some files edited on a PC may not play.
- Some files may not be able to perform fast forward or fast reverse function.
- The player does not play coded files such as DRM and Lossless.
- The player can recognize the following files or folders in BDs, DVDs, CDs and USB devices:
 - up to folders in the 9th layer, including the root folder
 - up to 500 files/folders in a single layer
- The player can recognize the following files or folders stored in the Home Network server:
 - up to folders in the 19th layer
 - up to 999 files/folders in a single layer
- The player can support frame rate:
 - up to 60 fps for AVCHD (MPEG4/AVC) only.
 - up to 30 fps for other video codecs.

- The player can support video bit rate up to 40 Mbps.
- The player can support video resolution up to 1920 × 1080p.
- Some USB devices may not work with this player.
- The player can recognize Mass Storage Class (MSC) devices (such as flash memory or an HDD), Still Image Capture Device (SICD) class devices and 101 keyboard.
- To avoid data corruption or damage to the USB memory or devices, turn off the player when connecting or removing the USB memory or devices.
- The player may not play high bit rate video files on DATA CDs smoothly. It is recommended to play such files using DATA DVDs or DATA BDs.

About wireless LAN security

Since communication via the wireless LAN function is established by radio waves, the wireless signal may be susceptible to interception. To protect wireless communication, this player supports various security functions. Be sure to correctly configure the security settings in accordance with your network environment.

◆ No Security

Although you can easily make settings, anyone can intercept wireless communication or intrude into your wireless network, even without any sophisticated tools. Keep in mind that there is a risk of unauthorized access or interception of data.

◆ WEP

WEP applies security to communications to prevent outsiders from intercepting communications or intruding into your wireless network. WEP is a legacy security technology that enables older devices, which do not support TKIP/AES, to be connected.

◆ WPA-PSK (TKIP), WPA2-PSK (TKIP)

TKIP is a security technology developed to correct the deficiencies of WEP. TKIP assures a higher security level than WEP.

◆ WPA-PSK (AES), WPA2-PSK (AES)

AES is a security technology that uses an advanced security method that is distinct from WEP and TKIP.

AES assures a higher security level than WEP or TKIP.


Notes About the Discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
Dust, fingerprints, or scratches on the disc may cause it to malfunction.
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
- After playing, store the disc in its case.
- Clean the disc with a cleaning cloth. Wipe the disc from the center out.



- Do not use solvents such as benzene, thinner, commercially available disc/lens cleaners, or anti-static spray intended for vinyl LPs.
- If you have printed the disc's label, dry the label before playing.
- Do not use the following discs.
 - A lens cleaning disc.
 - A disc that has a non-standard shape (e.g., card, heart).
 - A disc with a label or sticker on it.
 - A disc that has cellophane tape or sticker adhesive on it.
- Do not resurface the playing side of a disc to remove surface scratches.

Code numbers of controllable TVs

While holding down -TV- , enter the TV manufacturer's code using the number buttons.

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code number
Sony	01 (default)
Hitachi	02
LG/Goldstar	04
Mitsubishi/MGA	13
NEC	04
Panasonic	19
Philips	21
Pioneer	16
RCA	10
Samsung	20
Sharp	18
Toshiba	07

Language code list

For details, see [BD/DVD Viewing Settings] (page 28).

The language spellings conform to the ISO 639: 1988 (E/F) standard.

Code Language

1027	Afar	1028	Abkhazian
1032	Afrikaans	1039	Amharic
1044	Arabic	1045	Assamese
1051	Aymara	1052	Azerbaijani
1053	Bashkir	1057	Byelorussian
1059	Bulgarian	1060	Bihari
1061	Bislama	1066	Bengali
1067	Tibetan	1070	Breton
1079	Catalan	1093	Corsican
1097	Czech	1103	Welsh
1105	Danish	1109	German
1130	Bhutani; Dzongkha	1142	Greek
1144	English	1145	Esperanto
1149	Spanish	1150	Estonian
1151	Basque	1157	Persian
1165	Finnish	1166	Fiji
1171	Faroese	1174	French
1181	Frisian	1183	Irish
1186	Scots Gaelic	1194	Galician
1196	Guarani	1203	Gujarati
1209	Hausa	1217	Hindi
1226	Croatian	1229	Hungarian
1233	Armenian	1235	Interlingua
1239	Interlingue	1245	Inupiak
1248	Indonesian	1253	Icelandic
1254	Italian	1257	Hebrew
1261	Japanese	1269	Yiddish
1283	Javanese	1287	Georgian
1297	Kazakh	1298	Greenlandic; Kalaallisut
1299	Cambodian; Khmer	1300	Kannada
1301	Korean	1305	Kashmiri
1307	Kurdish	1311	Kirghiz
1313	Latin	1326	Lingala
1327	Laothian; Lao	1332	Lithuanian
1334	Latvian	1345	Malagasy
1347	Maori	1349	Macedonian
1350	Malayalam	1352	Mongolian
1353	Moldavian	1356	Marathi

Code Language

1357	Malay	1358	Malese; Maltese
1363	Burmese	1365	Nauru
1369	Nepali	1376	Dutch
1379	Norwegian	1393	Occitan
1403	Oromo	1408	Oriya
1417	Punjabi; Panjabi	1428	Polish
1435	Pashto; Pushto	1436	Portuguese
1463	Quechua	1481	Rhaeto- Romance
1482	Kirundi; Rundi	1483	Romanian
1489	Russian	1491	Kinyarwanda
1495	Sanskrit	1498	Sindhi
1501	Sangho; Sango	1502	Serbo- Croatian
1503	Singhalese; Sinhalese	1505	Slovak
1506	Slovenian	1507	Samoan
1508	Shona	1509	Somali
1511	Albanian	1512	Serbian
1513	Siswati; Swati	1514	Sesotho; Sotho southern
1515	Sundanese	1516	Swedish
1517	Swahili	1521	Tamil
1525	Telugu	1527	Tajik
1528	Thai	1529	Tigrinya
1531	Turkmen	1532	Tagalog
1534	Setswana; Tswana	1535	Tonga; Tonga islands
1538	Turkish	1539	Tsonga
1540	Tatar	1543	Twi
1557	Ukrainian	1564	Urdu
1572	Uzbek	1581	Vietnamese
1587	Volapük	1613	Wolof
1632	Xhosa	1665	Yoruba
1684	Chinese	1697	Zulu
1703	Not specified		

Parental control/area code

For details, see [Parental Control Area Code] (page 29).

Code Area			
2044	Argentina	2047	Australia
2046	Austria	2057	Belgium
2070	Brazil	2090	Chile
2092	China	2093	Colombia
2115	Denmark	2165	Finland
2174	France	2109	Germany
2200	Greece	2219	Hong Kong
2248	India	2238	Indonesia
2239	Ireland	2254	Italy
2276	Japan	2304	Korea
2333	Luxembourg	2363	Malaysia
2362	Mexico	2376	Netherlands
2390	New Zealand	2379	Norway
2427	Pakistan	2424	Philippines
2428	Poland	2436	Portugal
2489	Russia	2501	Singapore
2149	Spain	2499	Sweden
2086	Switzerland	2543	Taiwan
2528	Thailand	2184	United Kingdom

The software of this player may be updated in the future. For information about any available updates and the latest Operating Instructions, please visit the following website:

<http://www.sony.com/bluraysupport/>



<http://www.sony.net/>

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